

SEGFR_ST25.txt
SEQUENCE LISTING

<110> Maihle, Nita
Baron, Andre

<120> Soluble Epidermal Growth Factor Receptor-Like Proteins and Their
Uses in Cancer Detection Methods

<130> 07-277

<140> 09/676,380
<141> 2000-09-29

<150> US 60/157,144
<151> 1999-09-30

<160> 54

<170> PatentIn version 3.5

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<212> PRT
<213> Homo sapiens

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35 40 45

Leu Ser Leu Gln Arg Met Phe Asn Asn Cys Glu Val Val Leu Gly Asn
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Leu Glu Ile Thr Tyr Val Gln Arg Asn Tyr Asp Leu Ser Phe Leu Lys
65 70 75 80

Thr Ile Gln Glu Val Ala Gly Tyr Val Leu Ile Ala Leu Asn Thr Val
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Glu Arg Ile Pro Leu Glu Asn Leu Gln Ile Ile Arg Gly Asn Met Tyr
100 105 110

Tyr Glu Asn Ser Tyr Ala Leu Ala Val Leu Ser Asn Tyr Asp Ala Asn
115 120 125

Lys Thr Gly Leu Lys Glu Leu Pro Met Arg Asn Leu Gln Glu Ile Leu
130 135 140

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His Gly Ala Val Arg Phe Ser Asn Asn Pro Ala Leu Cys Asn Val Glu
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 Ser Ile Gln Trp Arg Asp Ile Val Ser Ser Asp Phe Leu Ser Asn Met
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 Ser Met Asp Phe Gln Asn His Leu Gly Ser Cys Gln Lys Cys Asp Pro
 180 185 190
 Ser Cys Pro Asn Gly Ser Cys Trp Gly Ala Gly Glu Glu Asn Cys Gln
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 Lys Leu Thr Lys Ile Ile Cys Ala Gln Gln Cys Ser Gly Arg Cys Arg
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 Gly Lys Ser Pro Ser Asp Cys Cys His Asn Gln Cys Ala Ala Gly Cys
 225 230 235
 Thr Gly Pro Arg Glu Ser Asp Cys Leu Val Cys Arg Lys Phe Arg Asp
 245 250 255
 Glu Ala Thr Cys Lys Asp Thr Cys Pro Pro Leu Met Leu Tyr Asn Pro
 260 265 270
 Thr Thr Tyr Gln Met Asp Val Asn Pro Glu Gly Lys Tyr Ser Phe Gly
 275 280 285
 Ala Thr Cys Val Lys Lys Cys Pro Arg Asn Tyr Val Val Thr Asp His
 290 295 300
 Gly Ser Cys Val Arg Ala Cys Gly Ala Asp Ser Tyr Glu Met Glu Glu
 305 310 315 320
 Asp Gly Val Arg Lys Cys Lys Lys Cys Glu Gly Pro Cys Arg Lys Val
 325 330 335
 Cys Asn Gly Ile Gly Ile Gly Glu Phe Lys Asp Ser Leu Ser Ile Asn
 340 345 350
 Ala Thr Asn Ile Lys His Phe Lys Asn Cys Thr Ser Ile Ser Gly Asp
 355 360 365
 Leu His Ile Leu Pro Val Ala Phe Arg Gly Asp Ser Phe Thr His Thr
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 Pro Pro Leu Asp Pro Gln Glu Leu Asp Ile Leu Lys Thr Val Lys Glu
 385 390 395 400

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Ile Thr Gly Phe Leu Leu Ile Gln Ala Trp Pro Glu Asn Arg Thr Asp
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Leu His Ala Phe Glu Asn Leu Glu Ile Ile Arg Gly Arg Thr Lys Gln
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His Gly Gln Phe Ser Leu Ala Val Val Ser Leu Asn Ile Thr Ser Leu
435 440 445

Gly Leu Arg Ser Leu Lys Glu Ile Ser Asp Gly Asp Val Ile Ile Ser
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Gly Asn Lys Asn Leu Cys Tyr Ala Asn Thr Ile Asn Trp Lys Lys Leu
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Phe Gly Thr Ser Gly Gln Lys Thr Lys Ile Ile Ser Asn Arg Gly Glu
485 490 495

Asn Ser Cys Lys Ala Thr Gly Gln Val Cys His Ala Leu Cys Ser Pro
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Glu Gly Cys Trp Gly Pro Glu Pro Arg Asp Cys Val Ser Cys Arg Asn
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Val Ser Arg Gly Arg Glu Cys Val Asp Lys Cys Asn Leu Leu Glu Gly
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Glu Pro Arg Glu Phe Val Glu Asn Ser Glu Cys Ile Gln Cys His Pro
545 550 555 560

Glu Cys Leu Pro Gln Ala Met Asn Ile Thr Cys Thr Gly Arg Gly Pro
565 570 575

Asp Asn Cys Ile Gln Cys Ala His Tyr Ile Asp Gly Pro His Cys Val
580 585 590

Lys Thr Cys Pro Ala Gly Val Met Gly Glu Asn Asn Thr Leu Val Trp
595 600 605

Lys Tyr Ala Asp Ala Gly His Val Cys His Leu Cys His Pro Asn Cys
610 615 620

Thr Tyr Gly Pro Gly Asn Glu Ser Leu Lys Ala Met Leu Phe Cys Leu
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Phe Lys Leu Ser Ser Cys Asn Gln Ser Asn Asp Gly Ser Val Ser His

Gln Ser Gly Ser Pro Ala Ala Gln Glu Ser Cys Leu Gly Trp Ile Pro
660 665 670

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His
705

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35 40 45

Leu Ser Leu Gln Arg Met Phe Asn Asn Cys Glu Val Val Leu Gly Asn
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Leu Glu Ile Thr Tyr Val Gln Arg Asn Tyr Asp Leu Ser Phe Leu Lys
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Thr Ile Gln Glu Val Ala Gly Tyr Val Leu Ile Ala Leu Asn Thr Val
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Glu Arg Ile Pro Leu Glu Asn Leu Gln Ile Ile Arg Gly Asn Met Tyr
100 105 110

Tyr Glu Asn Ser Tyr Ala Leu Ala Val Leu Ser Asn Tyr Asp Ala Asn
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Lys Thr Gly Leu Lys Glu Leu Pro Met Arg Asn Leu Gln Glu Ile Leu
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His Gly Ala Val Arg Phe Ser Asn Asn Pro Ala Leu Cys Asn Val Glu
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Ser Ile Gln Trp Arg Asp Ile Val Ser Ser Asp Phe Leu Ser Asn Met
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Ser Cys Pro Asn Gly Ser Cys Trp Gly Ala Gly Glu Glu Asn Cys Gln
195 200 205

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Gly Lys Ser Pro Ser Asp Cys Cys His Asn Gln Cys Ala Ala Gly Cys
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 Asp Gly Val Arg Lys Cys Lys Lys Cys Glu Gly Pro Cys Arg Lys Val
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 Ala Thr Asn Ile Lys His Phe Lys Asn Cys Thr Ser Ile Ser Gly Asp
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 Leu His Ile Leu Pro Val Ala Phe Arg Gly Asp Ser Phe Thr His Thr
 370 375 380
 Pro Pro Leu Asp Pro Gln Glu Leu Asp Ile Leu Lys Thr Val Lys Glu
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 Ile Thr Gly Phe Leu Leu Ile Gln Ala Trp Pro Glu Asn Arg Thr Asp
 405 410 415
 Leu His Ala Phe Glu Asn Leu Glu Ile Ile Arg Gly Arg Thr Lys Gln
 420 425 430
 His Gly Gln Phe Ser Leu Ala Val Val Ser Leu Asn Ile Thr Ser Leu
 435 440 445
 Gly Leu Arg Ser Leu Lys Glu Ile Ser Asp Gly Asp Val Ile Ile Ser
 450 455 460
 Gly Asn Lys Asn Leu Cys Tyr Ala Asn Thr Ile Asn Trp Lys Lys Leu
 465 470 475 480
 Phe Gly Thr Ser Gly Gln Lys Thr Lys Ile Ile Ser Asn Arg Gly Glu
 485 490 495

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Asn Ser Cys Lys Ala Thr Gly Gln Val Cys His Ala Leu Cys Ser Pro
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515 520 525

Val Ser Arg Gly Arg Glu Cys Val Asp Lys Cys Asn Leu Leu Glu Gly
530 535 540

Glu Pro Arg Glu Phe Val Glu Asn Ser Glu Cys Ile Gln Cys His Pro
545 550 555 560

Glu Cys Leu Pro Gln Ala Met Asn Ile Thr Cys Thr Gly Arg Gly Pro
565 570 575

Asp Asn Cys Ile Gln Cys Ala His Tyr Ile Asp Gly Pro His Cys Val
580 585 590

Lys Thr Cys Pro Ala Gly Val Met Gly Glu Asn Asn Thr Leu Val Trp
595 600 605

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<213> Homo sapiens

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Gly Thr Ser Asn Lys Leu Thr Gln Leu Gly Thr Phe Glu Asp His Phe
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Leu Ser Leu Gln Arg Met Phe Asn Asn Cys Glu Val Val Leu Gly Asn
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SEGFR_ST25.txt

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 Thr Ile Gln Glu Val Ala Gly Tyr Val Leu Ile Ala Leu Asn Thr Val
 85 90 95
 Glu Arg Ile Pro Leu Glu Asn Leu Gln Ile Ile Arg Gly Asn Met Tyr
 100 105 110
 Tyr Glu Asn Ser Tyr Ala Leu Ala Val Leu Ser Asn Tyr Asp Ala Asn
 115 120 125
 Lys Thr Gly Leu Lys Glu Leu Pro Met Arg Asn Leu Gln Glu Ile Leu
 130 135 140
 His Gly Ala Val Arg Phe Ser Asn Asn Pro Ala Leu Cys Asn Val Glu
 145 150 155 160
 Ser Ile Gln Trp Arg Asp Ile Val Ser Ser Asp Phe Leu Ser Asn Met
 165 170 175
 Ser Met Asp Phe Gln Asn His Leu Gly Ser Cys Gln Lys Cys Asp Pro
 180 185 190
 Ser Cys Pro Asn Gly Ser Cys Trp Gly Ala Gly Glu Glu Asn Cys Gln
 195 200 205
 Lys Leu Thr Lys Ile Ile Cys Ala Gln Gln Cys Ser Gly Arg Cys Arg
 210 215 220
 Gly Lys Ser Pro Ser Asp Cys Cys His Asn Gln Cys Ala Ala Gly Cys
 225 230 235 240
 Thr Gly Pro Arg Glu Ser Asp Cys Leu Val Cys Arg Lys Phe Arg Asp
 245 250 255
 Glu Ala Thr Cys Lys Asp Thr Cys Pro Pro Leu Met Leu Tyr Asn Pro
 260 265 270
 Thr Thr Tyr Gln Met Asp Val Asn Pro Glu Gly Lys Tyr Ser Phe Gly
 275 280 285
 Ala Thr Cys Val Lys Lys Cys Pro Arg Asn Tyr Val Val Thr Asp His
 290 295 300
 Gly Ser Cys Val Arg Ala Cys Gly Ala Asp Ser Tyr Glu Met Glu Glu
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SEGFR_ST25.txt

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Ala Thr Asn Ile Lys His Phe Lys Asn Cys Thr Ser Ile Ser Gly Asp
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Leu His Ile Leu Pro Val Ala Phe Arg Gly Asp Ser Phe Thr His Thr
370 375 380

Pro Pro Leu Asp Pro Gln Glu Leu Asp Ile Leu Lys Thr Val Lys Glu
385 390 395 400

Ile Thr Gly Phe Leu Leu Ile Gln Ala Trp Pro Glu Asn Arg Thr Asp
405 410 415

Leu His Ala Phe Glu Asn Leu Glu Ile Ile Arg Gly Arg Thr Lys Gln
420 425 430

His Gly Gln Phe Ser Leu Ala Val Val Ser Leu Asn Ile Thr Ser Leu
435 440 445

Gly Leu Arg Ser Leu Lys Glu Ile Ser Asp Gly Asp Val Ile Ile Ser
450 455 460

Gly Asn Lys Asn Leu Cys Tyr Ala Asn Thr Ile Asn Trp Lys Lys Leu
465 470 475 480

Phe Gly Thr Ser Gly Gln Lys Thr Lys Ile Ile Ser Asn Arg Gly Glu
485 490 495

Asn Ser Cys Lys Ala Thr Gly Gln Val Cys His Ala Leu Cys Ser Pro
500 505 510

Glu Gly Cys Trp Gly Pro Glu Pro Arg Asp Cys Val Ser Cys Arg Asn
515 520 525

Val Ser Arg Gly Arg Glu Cys Val Asp Lys Cys Asn Leu Leu Glu Gly
530 535 540

Glu Pro Arg Glu Phe Val Glu Asn Ser Glu Cys Ile Gln Cys His Pro
545 550 555 560

Glu Cys Leu Pro Gln Ala Met Asn Ile Thr Cys Thr Gly Arg Gly Pro

Asp Asn Cys Ile Gln Cys Ala His Tyr Ile Asp Gly Pro His Cys Val
580 585 590

Lys Thr Cys Pro Ala Gly Val Met Gly Glu Asn Asn Thr Leu Val Trp
595 600 605

Lys Tyr Ala Asp Ala Gly His Val Cys His Leu Cys His Pro Asn Cys
610 615 620

Thr Tyr Gly Pro Gly Asn Glu Ser Leu Lys Ala Met Leu Phe Cys Leu
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Arg Ser Gly Ser Pro Ala Ala Gln Glu Ser Cys Leu Gly Trp Ile Pro
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His
705

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<212> PRT
<213> Homo sapiens
<400> 5

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Gly Thr Ser Asn Lys Leu Thr Gln Leu Gly Thr Phe Glu Asp His Phe
35 40 45

Leu Ser Leu Gln Arg Met Phe Asn Asn Cys Glu Val Val Leu Gly Asn
50 55 60

Leu Glu Ile Thr Tyr Val Gln Arg Asn Tyr Asp Leu Ser Phe Leu Lys
Page 11

65 70 75 80

Thr Ile Gln Glu Val₈₅ Ala Gly Tyr Val₉₀ Leu Ile Ala Leu Asn Thr Val₉₅

Glu Arg Ile Pro₁₀₀ Leu Glu Asn Leu Gln₁₀₅ Ile Ile Arg Gly Asn Met Tyr₁₁₀

Tyr Glu Asn₁₁₅ Ser Tyr Ala Leu Ala Val₁₂₀ Leu Ser Asn Tyr₁₂₅ Asp Ala Asn

Lys Thr Gly Leu Lys Glu₁₃₅ Leu Pro Met Arg Asn₁₄₀ Leu Gln Glu Ile Leu

His Gly Ala Val₁₄₅ Arg Phe₁₅₀ Ser Asn Asn Pro Ala₁₅₅ Leu Cys Asn Val₁₆₀ Glu

Ser Ile Gln Trp Arg₁₆₅ Asp Ile Val Ser Ser₁₇₀ Asp Phe Leu Ser Asn Met₁₇₅

Ser Met Asp Phe₁₈₀ Gln Asn His Leu Gly₁₈₅ Ser Cys Gln Lys Cys Asp Pro₁₉₀

Ser Cys Pro₁₉₅ Asn Gly Ser Cys Trp₂₀₀ Gly Ala Gly Glu₂₀₅ Glu Asn Cys Gln

Lys Leu₂₁₀ Thr Lys Ile Ile Cys₂₁₅ Ala Gln Gln Cys Ser₂₂₀ Gly Arg Cys Arg

Gly Lys Ser Pro Ser Asp₂₃₀ Cys Cys His Asn Gln₂₃₅ Cys Ala Ala Gly Cys₂₄₀

Thr Gly Pro Arg Glu₂₄₅ Ser Asp Cys Leu Val₂₅₀ Cys Arg Lys Phe Arg₂₅₅ Asp

Glu Ala Thr Cys₂₆₀ Lys Asp Thr Cys Pro₂₆₅ Pro Leu Met Leu Tyr₂₇₀ Asn Pro

Thr Thr Tyr₂₇₅ Gln Met Asp Val Asn₂₈₀ Pro Glu Gly Lys Tyr₂₈₅ Ser Phe Gly

Ala Thr₂₉₀ Cys Val Lys Lys Cys₂₉₅ Pro Arg Asn Tyr Val₃₀₀ Val Thr Asp His

Gly Ser Cys Val Arg Ala₃₁₀ Cys Gly Ala Asp Ser₃₁₅ Tyr Glu Met Glu₃₂₀ Glu

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Asp Gly Val Arg Lys Cys Lys Lys Cys Glu Gly Pro Cys Arg Lys Val
325 330

Cys Asn Gly Ile Gly Ile Gly Glu Phe Lys Asp Ser Leu Ser Ile Asn
340 345 350

Ala Thr Asn Ile Lys His Phe Lys Asn Cys Thr Ser Ile Ser Gly Asp
355 360 365

Leu His Ile Leu Pro Val Ala Phe Arg Gly Asp Ser Phe Thr His Thr
370 375 380

Pro Pro Leu Asp Pro Gln Glu Leu Asp Ile Leu Lys Thr Val Lys Glu
385 390 395 400

Ile Thr Gly Phe Leu Leu Ile Gln Ala Trp Pro Glu Asn Arg Thr Asp
405 410 415

Leu His Ala Phe Glu Asn Leu Glu Ile Ile Arg Gly Arg Thr Lys Gln
420 425 430

His Gly Gln Phe Ser Leu Ala Val Val Ser Leu Asn Ile Thr Ser Leu
435 440 445

Gly Leu Arg Ser Leu Lys Glu Ile Ser Asp Gly Asp Val Ile Ile Ser
450 455 460

Gly Asn Lys Asn Leu Cys Tyr Ala Asn Thr Ile Asn Trp Lys Lys Leu
465 470 475 480

Phe Gly Thr Ser Gly Gln Lys Thr Lys Ile Ile Ser Asn Arg Gly Glu
485 490 495

Asn Ser Cys Lys Ala Thr Gly Gln Val Cys His Ala Leu Cys Ser Pro
500 505 510

Glu Gly Cys Trp Gly Pro Glu Pro Arg Asp Cys Val Ser Cys Arg Asn
515 520 525

Val Ser Arg Gly Arg Glu Cys Val Asp Lys Cys Asn Leu Leu Glu Gly
530 535 540

Glu Pro Arg Glu Phe Val Glu Asn Ser Glu Cys Ile Gln Cys His Pro
545 550 555 560

Glu Cys Leu Pro Gln Ala Met Asn Ile Thr Cys Thr Gly Arg Gly Pro
565 570 575

SEGFR_ST25.txt

Asp Asn Cys Ile Gln Cys Ala His Tyr Ile Asp Gly Pro His Cys Val
580 585 590

Lys Thr Cys Pro Ala Gly Val Met Gly Glu Asn Asn Thr Leu Val Trp
595 600 605

Lys Tyr Ala Asp Ala Gly His Val Cys His Leu Cys His Pro Asn Cys
610 615 620

Thr Tyr Gly Pro Gly Asn Glu Ser Leu Lys Ala Met Leu Phe Cys Leu
625 630 635 640

Phe Lys Leu Ser Ser Cys Asn Gln Ser Asn Asp Gly Ser Val Ser His
645 650 655

Gln Ser Gly Ser Leu Ala Ala Gln Glu Ser Cys Leu Gly Trp Ile Pro
660 665 670

Ser Leu Leu Pro Ser Glu Phe Gln Leu Gly Trp Gly Gly Cys Ser His
675 680 685

Leu His Ala Trp Pro Ser Ala Ser Val Ile Ile Thr Ala Ser Ser Cys
690 695 700

His
705

<210> 6
<211> 705
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<213> Homo sapiens

<400> 6

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35 40 45

Leu Ser Leu Gln Arg Met Phe Asn Asn Cys Glu Val Val Leu Gly Asn
50 55 60

Leu Glu Ile Thr Tyr Val Gln Arg Asn Tyr Asp Leu Ser Phe Leu Lys
65 70 75 80

SEGFR_ST25.txt

Thr Ile Gln Glu Val₈₅ Ala Gly Tyr Val₉₀ Leu Ile Ala Leu Asn Thr Val₉₅
 Glu Arg Ile Pro₁₀₀ Leu Glu Asn Leu Gln₁₀₅ Ile Ile Arg Gly Asn₁₁₀ Met Tyr
 Tyr Gln Asn₁₁₅ Ser Tyr Ala Leu Ala Val₁₂₀ Leu Ser Asn Tyr₁₂₅ Asp Ala Asn
 Lys Thr₁₃₀ Gly Leu Lys Gln₁₃₅ Leu Pro Met Arg Asn₁₄₀ Leu Gln Glu Ile Leu
 His Gly Ala Val₁₄₅ Arg Phe₁₅₀ Ser Asn Asn Pro₁₅₅ Ala Leu Cys Asn Val₁₆₀ Glu
 Ser Ile Gln Trp Arg₁₆₅ Asp Ile Val Ser₁₇₀ Ser Asp Phe Leu Ser Asn₁₇₅ Met
 Ser Met Asp Phe₁₈₀ Gln Asn His Leu Gly₁₈₅ Ser Cys Gln Lys Cys₁₉₀ Asp Pro
 Ser Cys Pro₁₉₅ Asn Gly Ser Cys Trp₂₀₀ Gly Ala Gly Glu₂₀₅ Glu Asn Cys Gln
 Lys Leu₂₁₀ Thr Lys Ile Ile Cys₂₁₅ Ala Gln Gln Cys Ser₂₂₀ Gly Arg Cys Arg
 Gly Lys Ser Pro Ser Asp₂₃₀ Cys Cys His Asn Gln₂₃₅ Cys Ala Ala Gly Cys₂₄₀
 Thr Gly Pro Arg Glu₂₄₅ Ser Asp Cys Leu Val₂₅₀ Cys Arg Lys Phe Arg₂₅₅ Asp
 Glu Ala Thr Cys₂₆₀ Lys Asp Thr Cys Pro₂₆₅ Pro Leu Met Leu Tyr₂₇₀ Asn Pro
 Thr Thr Tyr₂₇₅ Gln Met Asp Val Asn₂₈₀ Pro Glu Gly Lys Tyr₂₈₅ Ser Phe Gly
 Ala Thr Cys Val Lys Lys Cys₂₉₅ Pro Arg Asn Tyr Val₃₀₀ Val Thr Asp His
 Gly Ser Cys Val Arg Ala₃₁₀ Cys Gly Ala Asp Ser₃₁₅ Tyr Glu Met Glu₃₂₀ Glu
 Asp Gly Val Arg Lys₃₂₅ Cys Lys Lys Cys Glu₃₃₀ Gly Pro Cys Arg Lys₃₃₅ Val

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Cys Asn Gly Ile Gly Ile Gly Glu Phe Lys Asp Ser Leu Ser Ile Asn
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 Ala Thr Asn Ile Lys His Phe Lys Asn Cys Thr Ser Ile Ser Gly Asp
 355 360 365
 Leu His Ile Leu Pro Val Ala Phe Arg Gly Asp Ser Phe Thr His Thr
 370 375 380
 Pro Pro Leu Asp Pro Gln Glu Leu Asp Ile Leu Lys Thr Val Lys Glu
 385 390 395 400
 Ile Thr Gly Phe Leu Leu Ile Gln Ala Trp Pro Glu Asn Arg Thr Asp
 405 410 415
 Leu His Ala Phe Glu Asn Leu Glu Ile Ile Arg Gly Arg Thr Lys Gln
 420 425 430
 His Gly Gln Phe Ser Leu Ala Val Val Ser Leu Asn Ile Thr Ser Leu
 435 440 445
 Gly Leu Arg Ser Leu Lys Glu Ile Ser Asp Gly Asp Val Ile Ile Ser
 450 455 460
 Gly Asn Lys Asn Leu Cys Tyr Ala Asn Thr Ile Asn Trp Lys Lys Leu
 465 470 475 480
 Phe Gly Thr Ser Gly Gln Lys Thr Lys Ile Ile Ser Asn Arg Gly Glu
 485 490 495
 Asn Ser Cys Lys Ala Thr Gly Gln Val Cys His Ala Leu Cys Ser Pro
 500 505 510
 Glu Gly Cys Trp Gly Pro Glu Pro Arg Asp Cys Val Ser Cys Arg Asn
 515 520 525
 Val Ser Arg Gly Arg Glu Cys Val Asp Lys Cys Asn Leu Leu Glu Gly
 530 535 540
 Glu Pro Arg Glu Phe Val Glu Asn Ser Glu Cys Ile Gln Cys His Pro
 545 550 555 560
 Glu Cys Leu Pro Gln Ala Met Asn Ile Thr Cys Thr Gly Arg Gly Pro
 565 570 575
 Asp Asn Cys Ile Gln Cys Ala His Tyr Ile Asp Gly Pro His Cys Val

580

585

590

Lys Thr Cys Pro Ala Gly Val Met Gly Glu Asn Asn Thr Leu Val Trp
595 600 605

Lys Tyr Ala Asp Ala Gly His Val Cys His Leu Cys His Pro Asn Cys
610 615 620

Thr Tyr Gly Pro Gly Asn Glu Ser Leu Lys Ala Met Leu Phe Cys Leu
625 630 635 640

Phe Lys Leu Ser Ser Cys Asn Gln Ser Asn Asp Gly Ser Val Ser His
645 650 655

Gln Ser Gly Ser Pro Ala Ala Gln Glu Ser Cys Leu Gly Trp Ile Pro
660 665 670

Ser Leu Leu Pro Ser Glu Phe Gln Leu Gly Trp Gly Gly Cys Ser His
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Leu His Ala Trp Pro Ser Ala Ser Val Ile Ile Thr Ala Ser Phe Cys
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His
705

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<210> 14
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Tyr

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Cys Glu Gly Pro Cys Arg Lys
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Leu Asp

<210> 17
 <211> 12
 <212> PRT
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<400> 17

Ile Gln Cys Ala His Tyr Ile Asp Gly Pro His Cys
 1 5 10

<210> 18
 <211> 31
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<400> 18

Ser Val Ser His Gln Ser Gly Ser Pro Ala Ala Gln Glu Ser Cys Leu
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Gly Trp Ile Pro Ser Leu Leu Pro Ser Glu Phe Gln Leu Gly Trp
 20 25 30

<210> 19
 <211> 24
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Gly Gly Cys Ser His Leu His Leu His Ala Trp Pro Ser Ala Ser Val
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Ile Ile Thr Ala Ser Ser Cys His
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<400> 20

Ala Asn Cys Thr Tyr Gly Cys Ala Gly Pro Gly Leu Gln Gly Cys Glu
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Val Trp Pro Ser Gly Tyr Val Glu Trp Gln Trp Ile Leu Lys Thr Phe
20 25 30

Trp Ile

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<211> 53

<212> PRT

<213> Homo sapiens

<400> 21

Gly Pro Asp Asn Cys Ile Gln Cys Ala His Tyr Ile Asp Gly Pro His
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Cys Val Lys Thr Cys Pro Ala Gly Val Met Gly Glu Asn Asn Thr Leu
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Val Trp Lys Tyr Ala Asp Ala Gly His Val Cys His Leu Cys His Pro
35 40 45

Asn Cys Thr Tyr Gly
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<210> 22

<211> 74

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<213> Homo sapiens

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Asp Ser Ala Met His Arg Val Pro Gly Arg Ala Cys Val Val Gln Cys
20 25 30

Cys Thr Ser Gln Gln Glu Gly Arg Gly Thr Lys Glu His Arg Ser Trp
35 40 45

Gln Leu Pro Gln Ser Pro Gly Ala Phe Ala Phe Leu Ser Arg Phe Leu
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Arg Leu Thr Trp Gly Leu Ala Val Leu Gln
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SEGFR_ST25.txt

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Lys Thr Ile Ile
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Met Cys Asp Tyr Ile Pro Asp Ser Glu Pro Phe
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<400> 27

Ile Tyr Asp Val His Asn Ile Pro Glu Tyr Ile Val Ser Leu Ile Ser
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Gln Met Gly Cys Ile Ala Phe Ser Ile Ser Ile Val Lys Glu Thr Leu
 20 25 30

SEGFR_ST25.txt

Thr Gly Val Ser Leu Thr Thr Cys Glu Gln Gln His Gln Ser Pro Asp
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Tyr Ser Ile Ser Ser Cys
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Trp Asp Val Leu Pro Ser Pro Phe Leu Leu Leu Lys Lys His Leu Gln
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Gly Phe Leu

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Val Thr Glu Gly Leu Ile Ser Val Ser Arg Ser Pro Ser Pro Ser Asp
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Ala Leu Thr Ser Phe Ser Pro Ala Ala Pro Ser Cys His Cys Pro Cys
20 25 30

Pro Ala Ser Leu Gln Gly Ser Thr Gly Leu Pro Phe Pro Thr Ser Leu
35 40 45

Ser Gln Leu Leu Val Ser Asn Pro Tyr Gly Cys Pro Lys Ala Phe Ser
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Glu Pro Ala
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Pro Val Leu Pro Leu Ser Leu Ser Ser Phe Ser Ser Arg Val Asn Trp
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Ser Thr Phe Pro Tyr Lys Ser Val Thr Ala Ser Cys
Page 22

20

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<400> 31

Pro Gly Asn Glu Ser Leu Lys Ala Met Leu Phe Cys Leu Phe Lys Leu
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Ser Ser Cys Asn Gln Ser Asn Asp Gly Ser Val Ser His Gln Ser Gly
 20 25 30

Ser Pro Ala Ala Gln Glu Ser Cys Leu Gly Trp Ile Pro Ser Leu Leu
 35 40 45

Pro Ser Glu Phe Gln Leu Gly Trp Gly Gly Cys Ser His Leu His Ala
 50 55 60

Trp Pro Ser Ala Ser Val Ile Ile Thr Ala Ser Ser Cys His
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<210> 32
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<400> 32

Val Ser Ala Gly Leu Gly Trp Met Gln Pro Pro Pro Cys Leu Ala Phe
 1 5 10 15

Cys Ile Cys Asp His His Gly Leu Leu Leu Pro Leu Ser Leu Met Pro
 20 25 30

Ser Arg Val Cys Ser Pro Arg Phe Ser Phe Leu Pro Pro Leu His Val
 35 40 45

Gly Arg Gln Val Pro Lys Ser Ile Leu Pro Ile Ser Phe Leu Pro Leu
 50 55 60

Pro Leu Pro Val Pro Leu Thr Pro Thr Ser Ser
 65 70 75

<210> 33
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<400> 33

SEGFR_ST25.txt

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<211> 79
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<400> 34

His Thr Ala Gln Gln Arg Gln Lys Gly Phe Leu Gln His Gln Leu Trp
1 5 10 15

Pro Val Cys Gln Ser Lys Ala Leu Arg Lys Ala Arg Leu Lys Ser Leu
20 25 30

Ile Gln Thr His Gln Glu Arg Val Val Leu Leu Ser Met Ala Ser Ser
35 40 45

Gln Glu Ser Trp Asn Thr Tyr Pro Ser Thr Cys Leu Pro Phe Trp Met
50 55 60

Phe Pro Asn Met Asn Gln Thr Ser Arg Pro Leu Cys His Leu Trp
65 70 75

<210> 35
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<400> 35

Glu Leu Leu Gly His Pro Ala Glu Leu Pro His Ser Thr Leu Gln Ser
1 5 10 15

Gln Gly Ser

<210> 36
<211> 17
<212> PRT
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<400> 36

Ser Tyr Ile Val Ser His Phe Pro Arg Ser Phe Tyr Lys Met Ser Val
1 5 10 15

His

<210> 37

SEGFR_ST25.txt

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Leu Leu Val Val Ala Leu Gly Ile Gly Leu Phe Met Arg Arg Arg His
20      25      30

Ile Val Arg Lys Arg Thr Leu Arg Arg Leu Leu Gln Glu Arg Glu
35      40      45

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ggccatgtgt gccacctgtg ccacccaaac tgcacctacg g      161

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<212> DNA
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catgcacctg gtccccggcc gggccgtgtg ttgtgcaatg ctgcacatca caacaggagg      120
gtagggggac aaaagagcac aggtcctggc agctgccaca gtctccaggg gcttttgcgt      180
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<400> 41
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sEGFR_ST25.txt

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catatgttgc tgggcttag                                          79

<210> 43
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<400> 43
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<210> 44
<211> 169
<212> DNA
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<400> 44
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atgtattgcc ttctccattt ctattgttaa agaaacactt acaggggttt ctttaacaac      120
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<400> 45
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ttaa                                          64

<210> 46
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<212> DNA
<213> Homo sapiens

<400> 46
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atccttctct cctgcagccc cgtcctgcc a ctgccttgt ccagcttctc ttcaagggtc      120
aactggtcta cttttcccta caagtctgtc acagcttctt gttagcaatc cctatgggtg      180
cccaaaagca ttttcagagc ctgcataa      208

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<213> Homo sapiens

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<211> 240

<212> DNA

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 tgcttaggat ggatcccttc tcttctgccg tcagagtctc agctgggttg ggggtggatgc 180
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<211> 232

<212> DNA

<213> Homo sapiens

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 cttttccttt ctgccacccc tgcacgtggg ccgccagggt ccaagagta tcctaccat 180
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<212> DNA

<213> Homo sapiens

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<210> 51

<211> 244

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 agtgggtgta ctctcgatgg cgtctagcca ggaatcatgg aattatacac cgagcacctg 180
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SEGFR_ST25.txt

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ttag                                           64

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<400> 53
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<210> 54
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<212> DNA
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gcggaggctg ctgcaggaga gggag                                           145

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